In the Claims:

Claims 1 to 42 - canceled

43. (original) A polymeric material with a molecular imprint made by a process comprising the steps of:

expanding a mixture containing a propellant and monomers to form particles; introducing a template into said particles which does not covalently bind to said monomers;

polymerizing said particles in the presence of said template to form composite particles having polymer and template, wherein said template is not bound to said polymer; and

extracting said template from said composite particles without distorting a morphology of said composite particles to provide polymerized particles imprinted by said template with a size and arrangement of chemical functional groups complementary to said template.

- 44. (original) The polymeric material of claim 43 wherein said composite particles are 50 microns or less in size.
- 45. (original) The polymeric material of claim 43 wherein said composite particles are 1 micron or less in size.
- 46. (original) A device for selectively joining with an analyte in a sample, comprising:

a substrate; and

a plurality of polymeric particles imprinted by a template specific for said analyte adhered directly to a surface of said substrate by a chemical or mechanical bond with said polymeric particles.

- 47. (original) The device of claim 46 wherein said substrate is part of a sensor.
- 48. (original) The device of claim 46 wherein said substrate is part of a chromatography device.
- 49. (original) The device of claim 46 wherein said substrate is a conductive material.
- 50. (original) The device of claim 46 wherein said substrate is an insulative material.
 - 51. (original) A filter, purifier, or separation device, comprising a porous substrate; and

a plurality of polymeric particles imprinted by a template specific for an analyte adhered to surfaces of said substrate by a chemical or mechanical bond with said polymeric particles.

- 52. (original) The filter of claim 51 wherein at least some of said surfaces to which said polymeric particles are adhered to are internal to said porous substrate.
 - 53. (original) A chemical delivery material, comprising:
 - a polymeric particle imprinted by a template specific for an analyte; and

an agent associated with said polymeric particle which is selectively releasable from said polymeric particle.

- 54. (original) The chemical delivery material as recited in claim 1 wherein said agent is a drug.
- 55. (original) The chemical delivery material as recited in claim 53 wherein said agent is releasable by hydrolyzing bonds between said polymeric particle and said agent.
- 56. (original) The chemical delivery material as recited in claim 53 wherein said polymeric particle is biodegradable.
- 57. (original) The chemical delivery material as recited in claim 53 wherein said agent is an enzyme.
- 58. (original) The chemical delivery material as recited in claim 53 wherein said agent includes a nucleic acid sequence.
- 59. (original) The chemical delivery material as recited in claim 53 wherein said agent is a protein.
- 60. (original) The chemical delivery material as recited in claim 53 wherein said agent is a vitamin.

Claim 61 - canceled

62. (original) A non-agglomerated, solvent free collection of a plurality of selectively polymerizable particles, each of which are comprised of a monomer of solid state reactivity, and each of which is 1 micron or smaller in size.

- 63. (oringial) The non-agglomerated, solvent fee collection recited in claim 62 wherein at least to of said plurality of particles are comprised different monomer materials.
- 64. (original) The non-agglomerated, solvent free collection recited in claim 62 wherein at least one of the monomeric particles in said plurality is molecularly imprinted.
- 65. (original) A collection of selectively polymerizable particles, consisting of: a plurality of monomeric particles each of which is composed of a monomer of solid state reactivity, and each of which is one micron or smaller in size.
 - 66. (original) A coated substrate, comprised of: a substrate;
- a plurality of monomer containing particles of solid state reactivity positioned on said substrate, each of said monomer containing particles being 100 microns or smaller in size.
- 67. (original) The coated substrate of claim 66 wherein said plurality of monomeric particles cover only a patterned portion of a surface of said substrate.
- 68. (original) The coated substrate of claim 66 wherein at least two of said monomer containing particles are composed of different materials.
- 69. (original) The coated substrate of claim 66 wherein at least one of said monomer containing particles contains a template for molecularly imprinting positioned therein.

70. (original) The coated substrate of claim 66 wherein said coated particles are one micron or less in size.

Claims 71 to 80 - canceled